



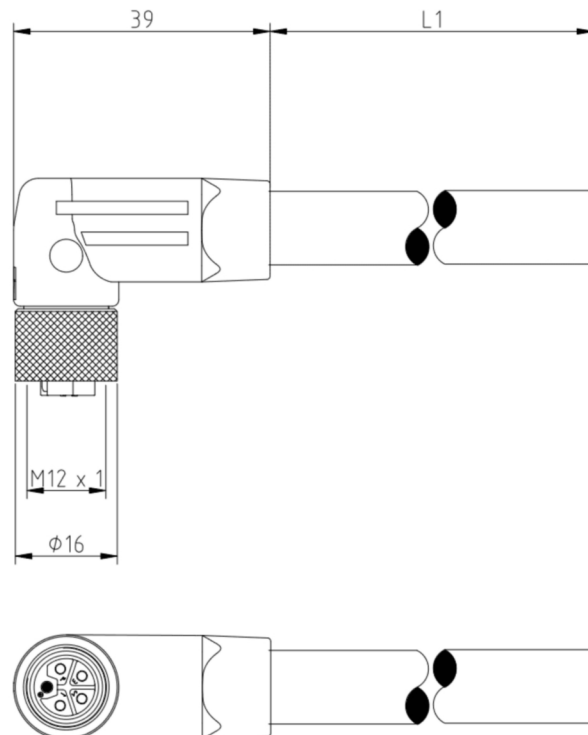
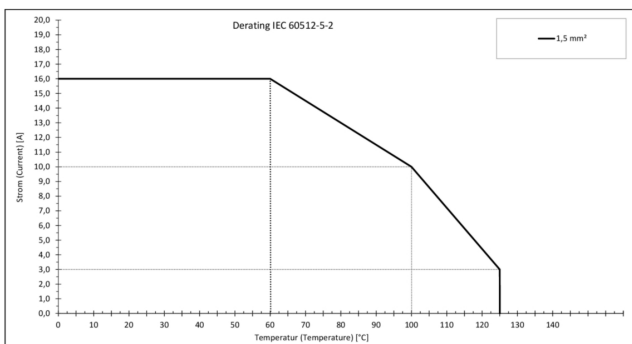
**Product:** [RKWT 5L-1002 SW](#) 

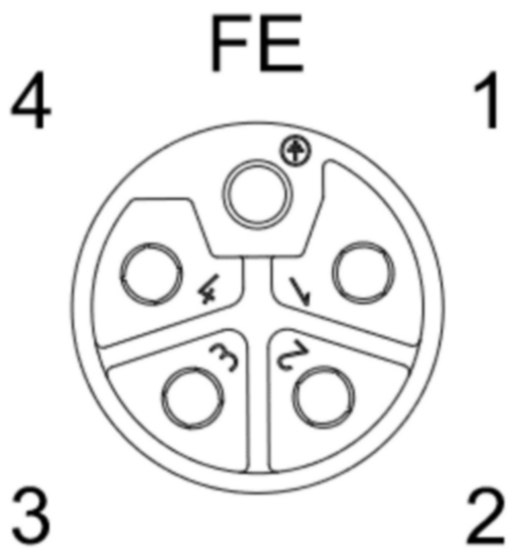
M12 Power Single-Ended Cordset: Female, angled, 5-pin(4+FE), L-coded, black body, 50 V AC/60 V DC, 16 A; TPE yellow cable, 1.50 mm<sup>2</sup>

### Product Description

M12 Power Single-Ended Cordset: Female, angled, 5-pin(4+FE), L-coded, black body, 50 V AC/60 V DC, 16 A; TPE yellow cable, 1.50 mm<sup>2</sup>

### Technical Drawing





1 = BN  
 2 = WH  
 3 = BU  
 4 = BK  
 FE = GY

## Technical Specifications

### Technical Data

|                           |                       |
|---------------------------|-----------------------|
| Product Family:           | Power Connector       |
| Product Sub Family:       | M12 Power             |
| Brand:                    | Lumberg Automation    |
| Connector Type:           | Cordset, single ended |
| Type of Contact / Gender: | female                |
| Connector Design:         | angled                |
| Number of Pins:           | 5                     |
| Coding:                   | L                     |
| Shielding:                | Unshielded            |
| Attachment Type:          | Coupling Nut          |
| Rated Voltage:            | 63 V                  |
| Rated Voltage (UL):       | 63 V                  |
| Rated Impulse Voltage:    | 1.5 kV                |
| Rated Current*:           | 16 A                  |
| Rated Current (UL)*:      | 16 A                  |
| Contact Resistance:       | ≤ 10 mOhm             |
| Insulation Resistance:    | > 10 <sup>9</sup> Ohm |
| Mating Cycles:            | ≤ 100                 |

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Ambient Temperature (Operation)*: | -40 °C to +125 °C, notice derating      |
| Protection Degree / IP Rating**:  | IP65, IP67, IP69K                       |
| Design Standard:                  | IEC 61076-2-111                         |
| Pollution Degree:                 | 3 acc. to DIN EN 60664-1 (VDE 0110-1)   |
| Clearance / Creepage Distance:    | DIN EN 60664-1 (2008/01); VDE 0110-1    |
| Overvoltage Category:             | III acc. to DIN EN 60664-1 (VDE 0110-1) |

Materials

|                                      |           |
|--------------------------------------|-----------|
| Contact Base Material:               | CuNi      |
| Contact Plating:                     | Cu/Au     |
| Contact Bearer Material:             | PBT GF    |
| Contact Bearer Color:                | grey      |
| Flammability Class (Contact Bearer): | UL 94 V-2 |
| Molded Body Material:                | TPE       |
| Molded Body Color:                   | black     |
| Flammability Class (Molded Body):    | UL 94 HB  |
| Attachment Material:                 | CuZn      |
| Attachment Plating:                  | Cu/Ni     |
| O-Ring Material:                     | FKM       |

Additional Technical Data

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Fastening Torque (Contact Screw): | M 12x1: (60-65) Ncm, hand-tight |
|-----------------------------------|---------------------------------|

Cable Data

|                                           |                                                                |
|-------------------------------------------|----------------------------------------------------------------|
| Cable Number:                             | 1002                                                           |
| Conductor Size:                           | 1.50 mm²                                                       |
| Number of Wires:                          | 5                                                              |
| Minimal Bending Radius (Fixed Inst):      | > 10 x D                                                       |
| Minimal Bending Radius (Flexible Inst):   | > 10 x D                                                       |
| Cycles (Bending):                         | > 1 Mio                                                        |
| Conductor material:                       | Cu                                                             |
| Cable Jacket Material:                    | TPE                                                            |
| Cable Jacket Color:                       | yellow                                                         |
| Cable Diameter D:                         | Ø 9.4 mm ± 0.2 mm                                              |
| Wire Insulation Material:                 | PVC                                                            |
| Insulated Wire Diameter:                  | ø 2.55 mm                                                      |
| Overall Shield (Cable):                   | -                                                              |
| Ambient Temperature (Fixed Installation): | -40 °C to +90 °C                                               |
| Ambient Temperature (Flex Installation):  | -5 °C to +90 °C                                                |
| Ambient Temperature (Drag Chain Inst):    | -                                                              |
| UL Cable Type:                            | UL/CSA, NEC (UL) TC_ER, WTTC or AWM Style 20328 (900 V 105 °C) |
| Flammability Class (Cable Jacket):        | UL1685 FT4/IEEE 1202 Vertical Tray Flame Test, FT4             |

Approvals

|          |                |
|----------|----------------|
| UL-File: | E497237        |
| UL:      | UL 2237; cULus |
| VDE:     | Yes            |

Safety & Environmental Compliance

|                 |     |
|-----------------|-----|
| RoHS Compliant: | Yes |
|-----------------|-----|

Resistances

|                 |            |
|-----------------|------------|
| Halogenfree:    | -          |
| Oil Resistance: | Oil Res II |

Notes

|                          |                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note Derating:           | * Notice derating                                                                                                                                               |
| Product Characteristics: | To ensure ingress protection, please check the O-ring's position before connecting. Improperly positioned O-ring leads to ingress protection potential failure. |

**Variants**

| Item #    | Item Description     | Cable Length |
|-----------|----------------------|--------------|
| 934850160 | RKWT 5L-1002/1 M SW  | 1 m          |
| 934850143 | RKWT 5L-1002/2 M SW  | 2 m          |
| 934851124 | RST 5L-1002/2 M SW   | 2 m          |
| 934850146 | RKWT 5L-1002/5 M SW  | 5 m          |
| 934851127 | RST 5L-1002/5 M SW   | 5 m          |
| 934850149 | RKWT 5L-1002/6 M SW  | 6 m          |
| 934850152 | RKWT 5L-1002/10 M SW | 10 m         |
| 934851130 | RST 5L-1002/10 M SW  | 10 m         |
| 934850155 | RKWT 5L-1002/15 M SW | 15 m         |
| 934850158 | RKWT 5L-1002/20 M SW | 20 m         |

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